



662882

## SEQUENCE LISTING

&lt;110&gt; ARKRAY, Inc.

&lt;120&gt; PROCESS FOR PRODUCING GLUCOSE DEHYDROGENASES

&lt;130&gt; 10921.0287USWO

&lt;140&gt; US 10/526,049

&lt;141&gt; 2005-09-28

&lt;150&gt; PCT/JP2003/010541

&lt;151&gt; 2003-08-20

&lt;150&gt; JP 2002/253752

&lt;151&gt; 2002-08-30

&lt;160&gt; 5

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&lt;211&gt; 3706

&lt;212&gt; DNA

&lt;213&gt; Burkholderia cepacia

&lt;220&gt;

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&lt;222&gt; (258)..(761)

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&lt;222&gt; (764)..(2380)

&lt;220&gt;

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&lt;222&gt; (2386)..(3660)

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Lys	Leu	Ile	Glu	Asn	Ala	Val	Val	Tyr	Lys	Leu	Glu	Thr	Gly	Pro	Asp	
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Lys	Arg	Ile	Val	Ala	Ala	Leu	Tyr	Lys	Asp	Lys	Thr	Gly	Ala	Glu	His	
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 Arg Ala Val Gly Gly Thr Thr Trp His Trp Ala Ala Ser Ala Trp Arg  
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 Phe Ile Pro Asn Asp Phe Lys Met Lys Ser Val Tyr Gly Val Gly Arg  
 115 120 125  
 Asp Trp Pro Ile Gln Tyr Asp Asp Leu Glu Pro Tyr Tyr Gln Arg Ala  
 130 135 140  
 Glu Glu Glu Leu Gly Val Trp Gly Pro Gly Pro Glu Glu Asp Leu Tyr  
 145 150 155 160  
 Ser Pro Arg Lys Gln Pro Tyr Pro Met Pro Pro Leu Pro Leu Ser Phe  
 165 170 175

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Asn	Glu	Gln	Thr	Ile	Lys	Thr	Ala	Leu	Asn	Asn	Tyr	Asp	Pro	Lys	Phe
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His	Val	Val	Thr	Glu	Pro	Val	Ala	Arg	Asn	Ser	Arg	Pro	Tyr	Asp	Gly
		195					200					205			
Arg	Pro	Thr	Cys	Cys	Gly	Asn	Asn	Asn	Cys	Met	Pro	Ile	Cys	Pro	Ile
	210					215					220				
Gly	Ala	Met	Tyr	Asn	Gly	Ile	Val	His	Val	Glu	Lys	Ala	Glu	Arg	Ala
225					230					235					240
Gly	Ala	Lys	Leu	Ile	Glu	Asn	Ala	Val	Val	Tyr	Lys	Leu	Glu	Thr	Gly
			245						250					255	
Pro	Asp	Lys	Arg	Ile	Val	Ala	Ala	Leu	Tyr	Lys	Asp	Lys	Thr	Gly	Ala
			260					265					270		
Glu	His	Arg	Val	Glu	Gly	Lys	Tyr	Phe	Val	Leu	Ala	Ala	Asn	Gly	Ile
		275					280					285			
Glu	Thr	Pro	Lys	Ile	Leu	Leu	Met	Ser	Ala	Asn	Arg	Asp	Phe	Pro	Asn
	290					295					300				
Gly	Val	Ala	Asn	Ser	Ser	Asp	Met	Val	Gly	Arg	Asn	Leu	Met	Asp	His
305					310					315					320
Pro	Gly	Thr	Gly	Val	Ser	Phe	Tyr	Ala	Ser	Glu	Lys	Leu	Trp	Pro	Gly
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Arg	Gly	Pro	Gln	Glu	Met	Thr	Ser	Leu	Ile	Gly	Phe	Arg	Asp	Gly	Pro
			340					345					350		
Phe	Arg	Ala	Thr	Glu	Ala	Ala	Lys	Lys	Ile	His	Leu	Ser	Asn	Leu	Ser
		355					360					365			
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	370					375					380				
Lys	Pro	Asp	Glu	Leu	Asp	Ala	Gln	Ile	Arg	Asp	Arg	Ser	Ala	Arg	Tyr
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Val	Gln	Phe	Asp	Cys	Phe	His	Glu	Ile	Leu	Pro	Gln	Pro	Glu	Asn	Arg
			405					410						415	
Ile	Val	Pro	Ser	Lys	Thr	Ala	Thr	Asp	Ala	Ile	Gly	Ile	Pro	Arg	Pro
		420						425					430		
Glu	Ile	Thr	Tyr	Ala	Ile	Asp	Asp	Tyr	Val	Lys	Arg	Gly	Ala	Ala	His
		435					440					445			
Thr	Arg	Glu	Val	Tyr	Ala	Thr	Ala	Ala	Lys	Val	Leu	Gly	Gly	Thr	Asp
	450					455					460				
Val	Val	Phe	Asn	Asp	Glu	Phe	Ala	Pro	Asn	Asn	His	Ile	Thr	Gly	Ser
465					470					475					480
Thr	Ile	Met	Gly	Ala	Asp	Ala	Arg	Asp	Ser	Val	Val	Asp	Lys	Asp	Cys
			485						490					495	
Arg	Thr	Phe	Asp	His	Pro	Asn	Leu	Phe	Ile	Ser	Ser	Ser	Ala	Thr	Met
			500					505					510		
Pro	Thr	Val	Gly	Thr	Val	Asn	Val	Thr	Leu	Thr	Ile	Ala	Ala	Leu	Ala
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 40 45 50 55  
 Pro Asp Thr Gly Asp Cys Met Ala Cys His Thr Val Lys Gly Gly Lys Pro Tyr Ala  
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 Gly Gly Leu Gly Gly Ile Gly Lys Trp Thr Phe Glu Asp Phe Glu Arg Ala Val Arg  
 80 85 90 95  
 His Gly Val Ser Lys Asn Gly Asp Asn Leu Tyr Pro Ala Met Pro Tyr Val Ser Tyr  
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 Ala Lys Ile Lys Asp Asp Val Arg Ala Tyr Ala Tyr Phe Met His Gly Val  
 115 120 125 130  
 Glu Pro Val Lys Gln Ala Pro Pro Lys Asn Glu Ile Pro Ala Leu Leu Ser Met Arg  
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 Trp Pro Leu Lys Ile Trp Asn Trp Leu Phe Leu Lys Asp Gly Pro Tyr Gln Pro Lys  
 155 160 165 170  
 Pro Ser Gln Ser Ala Glu Trp Asn Arg Gly Ala Tyr Leu Val Gln Gly Leu Ala His  
 175 180 185 190  
 Cys Ser Thr Cys His Thr Pro Arg Gly Ile Ala Met Gln Glu Lys Ser Leu Asp Glu  
 195 200 205  
 Thr Gly Gly Ser Phe Leu Ala Gly Ser Val Leu Ala Gly Trp Asp Gly Tyr Asn Ile  
 210 215 220 225  
 Thr Ser Asp Pro Asn Ala Gly Ile Gly Ser Trp Thr Gln Gln Gln Leu Val Gln  
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 Tyr Leu Arg Thr Gly Ser Val Pro Gly Val Ala Gln Ala Ala Gly Pro Met Ala Glu  
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 Ala Val Glu His Ser Phe Ser Lys Met Thr Glu Ala Asp Ile Gly Ala Ile Ala Thr  
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 Tyr Val Arg Thr Val Pro Ala Val Ala Asp Ser Asn Ala Lys Gln Pro Arg Ser Ser  
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 Trp Gly Lys Pro Ala Glu Asp Gly Leu Lys Leu Arg Gly Val Ala Leu Ala Ser Ser  
 305 310 315 320  
 Gly Ile Asp Pro Ala Arg Leu Tyr Leu Gly Asn Cys Ala Thr Cys His Gln Met Gln  
 325 330 335 340  
 Gly Lys Gly Thr Pro Asp Gly Tyr Tyr Pro Ser Leu Phe His Asn Ser Thr Val Gly  
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 Ala Ser Asn Pro Ser Asn Leu Val Gln Val Ile Leu Asn Gly Val Gln Arg Lys Ile  
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 Gly Ser Glu Asp Ile Gly Met Pro Ala Phe Arg Tyr Asp Leu Asn Asp Ala Gln Ile  
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 Glu Gln Asp Val Ala Lys Leu Arg  
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